

A2  
Concl.

such as a GS 615 (not explicitly shown in FIG. 16). The MGC 1610 may include a media gateway (MG) 1615, which may have a packet switch such as an ATM switch 630, and mediation logic (ML) 1620 (e.g., which may correspond to, for example, an IWF 1505 of the embodiment(s) of FIGS. 15 et seq.).--

---

IN THE CLAIMS

Please add the following new claims:

---

1     27. (New)     The system according to claim 6, wherein  
2     a connection between at least one of said second nodes and  
3     said interworking entity is dynamically created.

A3  
Cont.

1     28. (New)     The system according to claim 6, further  
2     comprising:  
3     a permanent connection between at least one of said  
4     second nodes and said interworking entity.

1           29. (New)       The arrangement according to claim 12,  
2   wherein a connection between said second node and said  
3   interworking entity is dynamically created.

1           30. (New)       The arrangement according to claim 12,  
2   further comprising:  
3               a permanent connection between said second node and  
4   said interworking entity.

A3  
Cont  
1           31. (New)       The system according to claim 14, wherein  
2   a connection between at least one of said second nodes and  
3   said interworking entity is dynamically created.

1           32. (New)       The system according to claim 14, further  
2   comprising:  
3               a permanent connection between at least one of said  
4   second nodes and said interworking entity.

1           33. (New)       The method according to claim 25, wherein  
2   said step of sending the second communication path  
3   instruction further comprises:

4                sending the second communication path instruction  
5   from the second node to said at least one third node using  
6   a dynamically created connection between the second node and  
7   said at least one third node.

A3  
Cont.  
1           34. (New)       The method according to claim 25, wherein  
2   said step of sending the second communication path  
3   instruction further comprises:

4                sending the second communication path instruction  
5   from the second node to said at least one third node using  
6   a permanent connection between the second node and said at  
7   least one third node.

1           35. (New)       The system according to claim 6, wherein  
2   said first node, said plurality of second nodes and said  
3   interworking entity comprise a first domain, and further  
4   comprising:

5 a second domain comprising:  
6 an additional first node, said additional  
7 first node including said switching fabric,  
8 an additional plurality of second nodes, each  
9 second node of said additional plurality of second nodes  
10 including said broadband switching fabric and comprising at  
11 least part of said broadband network, and  
12 an additional interworking entity, said  
13 additional interworking entity operatively connectable to  
14 said additional first node and said additional plurality of  
15 second nodes; and  
16 wherein said first domain and said second domain  
17 are interconnected by a permanent connection between one of  
18 said plurality of second nodes within said first domain and  
19 one of said additional plurality of second nodes within said  
20 second domain.

1 36. (New) The arrangement according to claim 12,  
2 wherein said first node, said second node and said

3 interworking entity comprise a first domain, and further  
4 comprising:

5 a second domain comprising:

6 an additional first node, said additional  
7 first node including said switching fabric,

8 an additional second node, said additional  
9 second node including said broadband switching fabric, and

10 an additional interworking entity, said  
11 additional interworking entity operatively connectable to  
12 said additional first node and said additional second node;

13 wherein said first domain and said second domain  
14 are interconnected by a permanent connection between said  
15 second node of said first domain and said additional second  
16 node of said second domain.

1 37. (New) The system according to claim 14, wherein  
2 said first node, said plurality of second nodes and said  
3 interworking entity comprise a first domain, and further  
4 comprising:

5 a second domain comprising:

A3  
C5A

6                    an additional first node, said additional  
7   first node including said call control functionality and said  
8   circuit-switched functionality,  
9                    an additional plurality of second nodes, each  
10   second node of said additional plurality of second nodes  
11   including   said   packet-switched   connection   control  
12   functionality, and  
13                    an additional interworking entity, said  
14   additional interworking entity operatively connectable to  
15   said additional first node and said additional plurality of  
16   second nodes; and  
17                    wherein said first domain and said second domain  
18   are interconnected by a permanent connection between one of  
19   said plurality of second nodes within said first domain and  
20   one of said additional plurality of second nodes within said  
21   second domain.

1            38.   (New)        The method according to claim 25, wherein  
2   said first node, said second node and said at least one third

**CLEAN VERSION OF THE ENTIRE SET OF PENDING CLAIMS**

1           1.    A system for combining narrowband and broadband  
2    transport mechanisms in a communications network, comprising:  
3                a first node, said first node including switching  
4    intelligence;  
5                a plurality of second nodes, each second node of  
6    said plurality of second nodes including broadband switching  
7    fabric;  
8                an interworking entity, said interworking entity  
9    operatively connectable to said first node and said plurality  
10   of second nodes, said interworking entity adapted to receive  
11   data in a first format from said first node, map the received  
12   data into a second format interpretable by said plurality of  
13   second nodes, and send the mapped data to at least one second  
14   node of said plurality of second nodes; and  
15                wherein said interworking entity thereby enables  
16   said plurality of second nodes to be controlled, at least  
17   partially, by the switching intelligence of said first node.

1           2.    The system according to claim 1, wherein said first  
2   node is comprised of a telecommunications node, said  
3   telecommunications node including narrowband switching  
4   fabric.

1           3.    The system according to claim 1, wherein said  
2   interworking entity comprises a third node between said first  
3   node and said plurality of second nodes.

1           4.    The system according to claim 1, wherein said  
2   interworking entity is at least one of part of and co-located  
3   with a second node of said plurality of second nodes.

1           5.    The system according to claim 1, wherein said  
2   interworking entity is further adapted to emulate an  
3   interface for a synchronous transfer mode (STM)-based node  
4   with respect to said first node.



1           6.    The system according to claim 1, wherein said  
2   plurality of second nodes comprise at least part of a  
3   broadband network.

1           7.    The system according to claim 6, wherein each  
2   second node of said plurality of second nodes is adapted to  
3   communicate signaling information and data information over  
4   the broadband network and to convert broadband information  
5   into another media type.

1           8.    The system according to claim 6, wherein the mapped  
2   data comprises instructions for the at least one second node  
3   to establish a communication path through at least a portion  
4   of the broadband network.

1           9.    The system according to claim 1, wherein the  
2   received data comprises at least one first network address,  
3   and the mapped data comprises at least one second network  
4   address.

1           10. The system according to claim 9, wherein the at  
2   least one first network address comprises at least one trunk  
3   connection.

1           11. The system according to claim 9, wherein the at  
2   least one second network address comprises at least one  
3   asynchronous transfer mode (ATM) identifier.

1           12. An arrangement for combining narrowband and  
2    broadband transport mechanisms in a communications network,  
3    comprising:  
4           a first node, said first node including switching  
5    intelligence;  
6           a second node, said second node including broadband  
7    switching fabric; and  
8           an interworking entity, said interworking entity  
9    operatively connectable to said first node and said second  
10   node, said interworking entity adapted to receive data in a  
11   first format from said first node, map the received data into  
12   a second format interpretable by said second node, and send  
13   the mapped data to said second node.

1           13. The arrangement according to claim 12, wherein the  
2    first format comprises a circuit-switched format, and the  
3    second format comprises a packet-switched format.

1           14. A system for combining narrowband and broadband  
2 transport mechanisms in a communications network, comprising:  
3           a first node, said first node including call  
4 control functionality and circuit-switched connection control  
5 functionality;  
6           a plurality of second nodes, each second node of  
7 said plurality of second nodes including packet-switched  
8 connection control functionality;  
9           an interworking entity, said interworking entity  
10 operatively connected to said first node and to said  
11 plurality of second nodes, said interworking entity adapted  
12 (i) to receive routing data in a circuit-switched format from  
13 said first node, (ii) to map the received data into a packet-  
14 switched format that is implementable by said plurality of  
15 second nodes, and (iii) to send the mapped data to at least  
16 one second node of said plurality of second nodes.

1           15. The system according to claim 14, wherein the  
2 circuit-switched format comprises addresses corresponding to  
3 switch devices.

1           16. The system according to claim 14, wherein the  
2   packet-switched format comprises addresses corresponding to  
3   an H.248 protocol.

1           17. The system according to claim 14, wherein said  
2   first node includes a synchronous transfer mode (STM) switch,  
3   and the at least one second node of said plurality of second  
4   nodes includes an asynchronous transfer mode (ATM) switch.

1           18. The system according to claim 14, further  
2   comprising:  
3           a plurality of third nodes, each third node of said  
4   plurality of third nodes connected to the at least one second  
5   node of said plurality of second nodes; and  
6           wherein each third node of said plurality of third  
7   nodes is configured to handle a different telecommunications  
8   protocol.

1           19. The system according to claim 18, wherein the at  
2   least one second node is adapted to convert media of one type  
3   to media of another type, the another type corresponding to  
4   a different telecommunications protocol that is associated  
5   with at least one third node of said plurality of third  
6   nodes.

1           20. The system according to claim 14, wherein at least  
2   one second node of said plurality of second nodes is adapted  
3   to add a communication path therethrough responsive to the  
4   mapped data.

1           21. The system according to claim 14, wherein at least  
2   one second node and another node of said plurality of second  
3   nodes are adapted to add a communication path therebetween  
4   responsive to the mapped data.

1           22. A method for combining narrowband and broadband  
2   transport mechanisms in a communications network, comprising  
3   the steps of:  
4            sending a first communication path instruction from  
5   a first node to a second node;  
6            mapping the first communication path instruction  
7   to a second communication path instruction at the second  
8   node;  
9            sending the second communication path instruction  
10   from the second node to at least one third node; and  
11           establishing a communication path responsive to the  
12   second communication path instruction.

1           23. The method according to claim 22, further  
2   comprising the step of:  
3            performing a destination number analysis to derive  
4   the first communication path instruction at the first node.

1           24. The method according to claim 22, further  
2 comprising the step of:

3                   receiving the second communication path instruction  
4 at the second node.

1           25. The method according to claim 22, wherein said step  
2 of establishing a communication path responsive to the second  
3 communication path instruction comprises the step of  
4 establishing the communication path in a broadband network.

1           26. The method according to claim 22, wherein the first  
2 communication path instruction pertains to a circuit-based  
3 address space, and the second communication path instruction  
4 pertains to a packet-based address space.

1           27. The system according to claim 6, wherein a  
2 connection between at least one of said second nodes and said  
3 interworking entity is dynamically created.



1           28. The system according to claim 6, further  
2 comprising:

3                   a permanent connection between at least one of said  
4 second nodes and said interworking entity.

1           29. The arrangement according to claim 12, wherein a  
2 connection between said second node and said interworking  
3 entity is dynamically created.

1           30. The arrangement according to claim 12, further  
2 comprising:

3                   a permanent connection between said second node and  
4 said interworking entity.

1           31. The system according to claim 14, wherein a  
2 connection between at least one of said second nodes and said  
3 interworking entity is dynamically created.

1           32. The system according to claim 14, further  
2 comprising:

3                 a permanent connection between at least one of said  
4 second nodes and said interworking entity.

1           33. The method according to claim 25, wherein said step  
2 of sending the second communication path instruction further  
3 comprises:

4                 sending the second communication path instruction  
5 from the second node to said at least one third node using  
6 a dynamically created connection between the second node and  
7 said at least one third node.

1           34. The method according to claim 25, wherein said step  
2 of sending the second communication path instruction further  
3 comprises:

4                 sending the second communication path instruction  
5 from the second node to said at least one third node using  
6 a permanent connection between the second node and said at  
7 least one third node.

1           35. The system according to claim 6, wherein said first  
2 node, said plurality of second nodes and said interworking  
3 entity comprise a first domain, and further comprising:  
4           a second domain comprising:  
5                 an additional first node, said additional  
6 first node including said switching fabric,  
7                 an additional plurality of second nodes, each  
8 second node of said additional plurality of second nodes  
9 including said broadband switching fabric and comprising at  
10 least part of said broadband network, and  
11                 an additional interworking entity, said  
12 additional interworking entity operatively connectable to  
13 said additional first node and said additional plurality of  
14 second nodes; and  
15                 wherein said first domain and said second domain  
16 are interconnected by a permanent connection between one of  
17 said plurality of second nodes within said first domain and  
18 one of said additional plurality of second nodes within said  
19 second domain.

1           36. The arrangement according to claim 12, wherein said  
2 first node, said second node and said interworking entity  
3 comprise a first domain, and further comprising:  
4           a second domain comprising:  
5                 an additional first node, said additional  
6 first node including said switching fabric,  
7                 an additional second node, said additional  
8 second node including said broadband switching fabric, and  
9                 an additional interworking entity, said  
10 additional interworking entity operatively connectable to  
11 said additional first node and said additional second node;  
12           wherein said first domain and said second domain  
13 are interconnected by a permanent connection between said  
14 second node of said first domain and said additional second  
15 node of said second domain.

1           37. The system according to claim 14, wherein said  
2 first node, said plurality of second nodes and said  
3 interworking entity comprise a first domain, and further  
4 comprising:

5                 a second domain, comprising:

6                     an additional first node, said additional  
7 first node including said call control functionality and said  
8 circuit-switched functionality,

9                     an additional plurality of second nodes, each  
10 second node of said additional plurality of second nodes  
11 including said packet-switched connection control  
12 functionality, and

13                    an additional interworking entity, said  
14 additional interworking entity operatively connectable to  
15 said additional first node and said additional plurality of  
16 second nodes; and

17                    wherein said first domain and said second domain  
18 are interconnected by a permanent connection between one of  
19 said plurality of second nodes within said first domain and

20 one of said additional plurality of second nodes within said  
21 second domain.

1 38. The method according to claim 25, wherein said  
2 first node, said second node and said at least one third node  
3 comprise a first domain, and wherein said step of  
4 establishing a communication path further comprises:  
5 using a permanent connection between one of said  
6 at least one third node within said first domain and one of  
7 at least one additional third node within a second domain.